







RainScapes Rewards & Targeted Neighborhoods Initiatives

- County Incentive Funding

 - Targeted Subwatershed Approach
 - Grants to Watershed Organizations
- This year, targeted neighborhoods are in the Lower Rock Creek and the Anacostia
 - Ken-Gar *
 - Wheaton Woods *
 - Town of Chevy Chase (Coquelin Run)Stoneybrook-Parkside

 - Long Branch *
 - Sligo Creek (targeted subwatershed)
 - Hollywood Branch Glen Echo Heights



Initiate projects with commercial / institutional sectors

Incentive Program

\$/year from WQPF



- RainScapes Rewards
 - \$1,200 per residential lot; with project caps, up to:
 - \$1200 for rain gardens, permeable paver retrofits, green roofs
 - \$500 for turf removal conservation landscaping (min. 500 sq.ft.)
 - \$200 for tree canopy
 - \$50 for rain barrel (max 4)
 - Commercial/Institutional: \$.50 cents per sq.ft. of imp. area treated, up to \$5000 per property (2009 application to be available soon)
- Targeted RainScapes Neighborhoods (more degraded watersheds)
 - \$2200/lot contractors to install, County to fund all or portion of installation costs with project caps.

RainScapes Techniques

A wide range of natural drainage options with varying levels of rebate rewards available

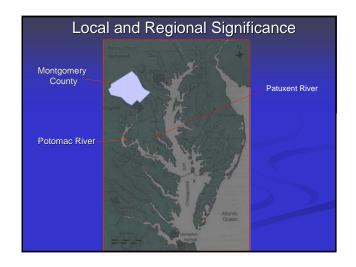
- Rain Gardens
- Downspout Diversion
- Rain Barrels, Cisterns (water re-use)
- Permeable Pavers
- Green Roofs
- Soil Reconditioning and Amendment
- Native/Naturalized Landscaping
- Urban Tree Canopy

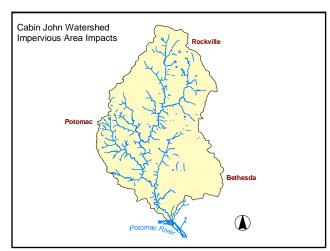


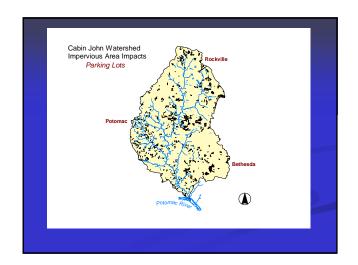


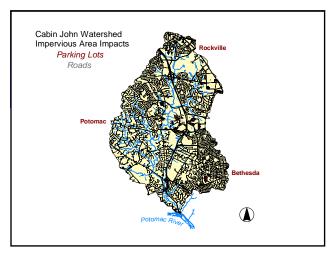


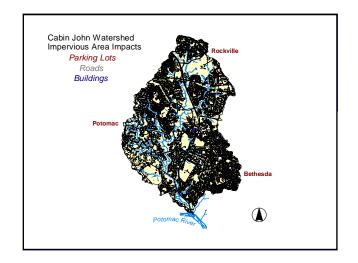




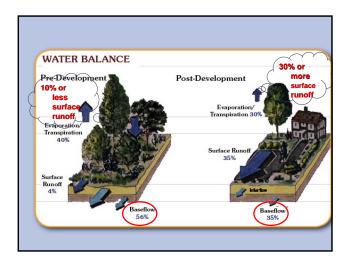


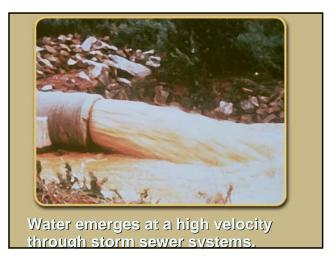






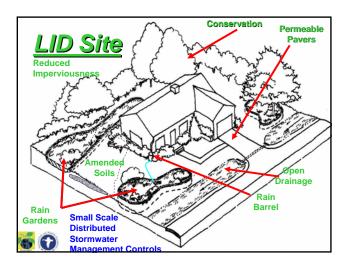










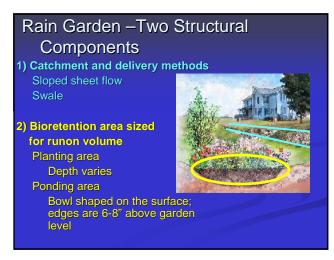


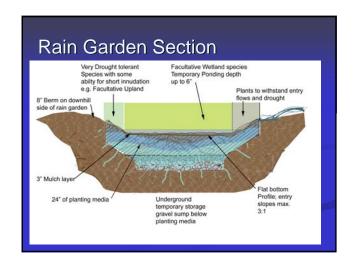


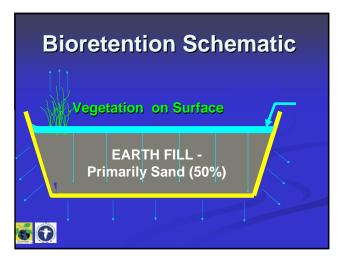












What soils are in a rain garden?

Rainscapes Soil specification is for a very fast draining soil:

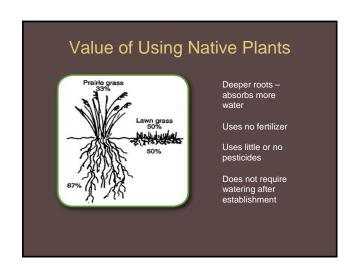
- 50% sharp washed sand (ASTM-33)
- 25% topsoil (max. 10% clay content)
- 25% organics typically well aged compost or may be shredded pine (no fines) – RainScapes uses LeafGro

Rain Gardens exemplify a "right plant in the right place" philosophy The place is engineered to meet water treatment needs A rain garden provides beauty as well as water volume reductions and quality benefits

Plants which do best

- Deep rooted
- Able to handle extreme moisture conditions (very wet and very dry)
- These are typically:
 - Facultative Wetland
 - Facultative Upland





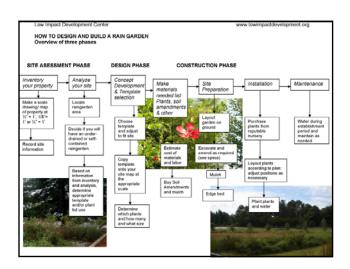


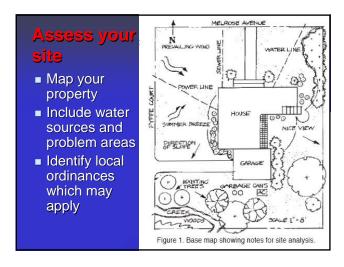


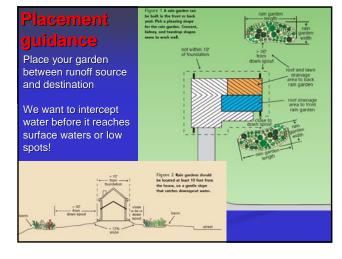


size (sf/ depth)

Select a design template /develop a design





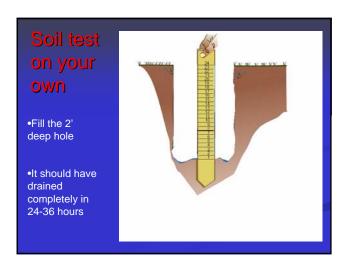








- Miss Utility 1-800-257-7777
 - http://www.missutility.net/
 Does not mark private lines or house connections
 10' +/- error
 Cable lines very shallow
- At least 10' from house and down-gradient from foundations and 25' from septic fields
- At least 15' from adjacent property lines
 - If additional flow is being redirected to the rain garden, must ensure that the overflow path is adequate and clear, and does not create a lot-to-lot drainage issue
- No more than ½ acre drainage area to the garden



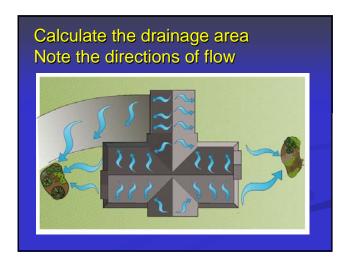


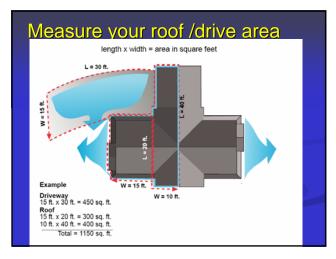






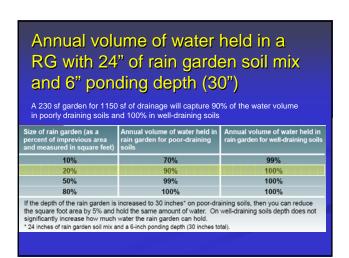


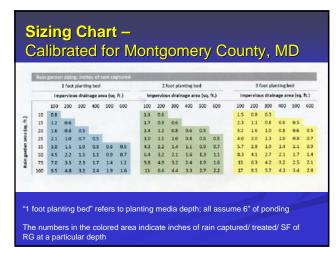




Capture the water from a 2.7" rain storm (24 hour period) Rule of thumb Calculate your drainage area in sf Assume you are excavating 2' of depth and adding bioretention media RainScapes uses a 20% area rule of thumb X sf Drainage sf X .20% = RG sf (if 2' deep media) with 6" ponding area needed to capture your 1150 sf X .20 = 230 sf

RainScapes rain gardens size The target is to capture between 1.25" and 2.7" Why? the typical rainstorms in this area











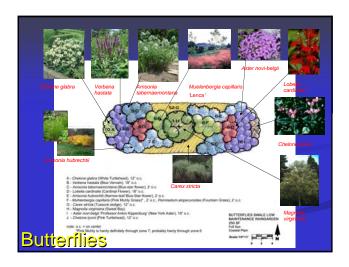


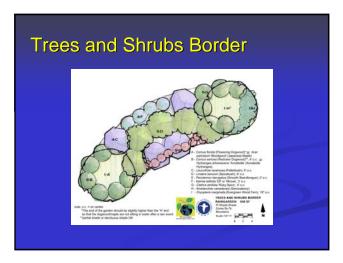


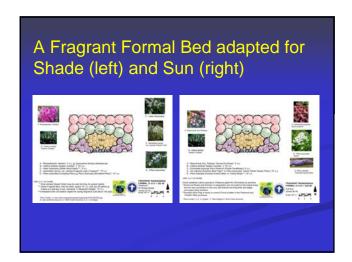




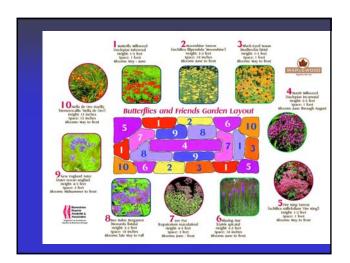






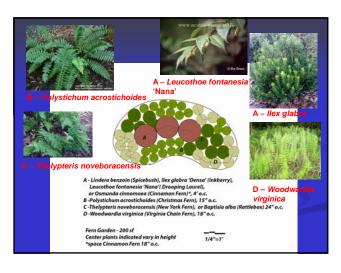


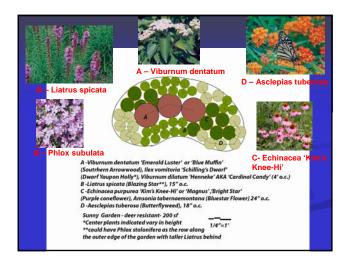






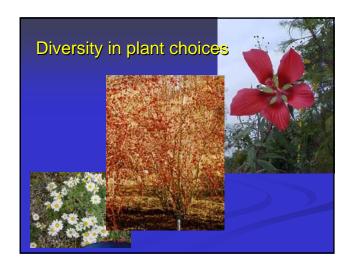




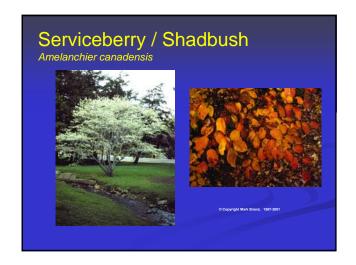


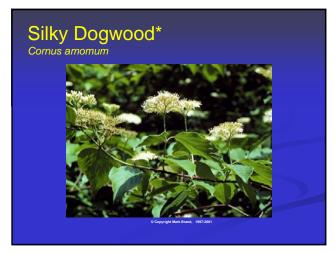
Gardens Designed for Maintenance Ease

- □ Easy access to and around the garden
- □ Flow should enter the garden as sheet flow or should be slowed down prior to entry if coming in via a swale
- Deeply rooted vegetation that is adapted to the conditions

















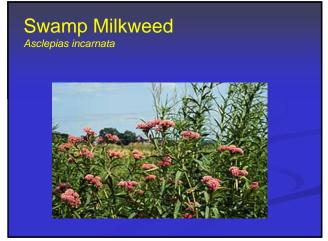












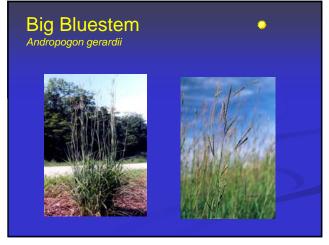




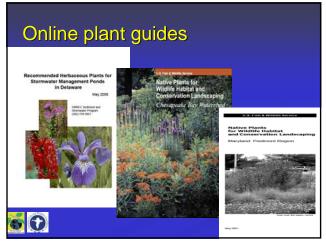






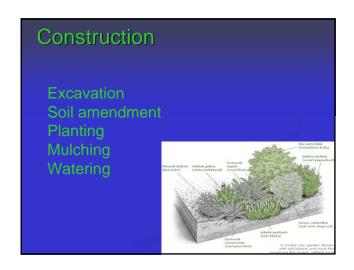
















Maintenance and Inspection

- Check for settling, in the middle and around the edges don't want to end up too deep
 Edge problems don't make side slopes too steep
- Watering to establish garden
 - Particular issue for Spring planting
- - Inevitable in the beginning
 More dense planting will reduce problem
 Careful selection of mulch source
- Periodic mulching
- Berm check overflow area periodically and keep planted or mulched
- Inflow area check for erosion, add stone if necessary



